- 7. (Amended) Process according to Claim 1, characterized in that the microreactor has channels having a diameter of from 10 to  $1000\mu m$ , preferably from 20 to  $800 \mu m$ , particularly preferably from 30  $\mu m$  to  $400 \mu m$ .
- 8. (Amended) Process according to Claim 1, characterized in that the reaction mixture flows through the microreactor at a flow rate of from 0.1  $\mu$ m/min to 10 ml/min, preferably from 1  $\mu$ l/min to 1 ml/min.
- 9. (Amended) Process according to Claim 1, characterized in that the residence time of the compounds employed in the microreactor, where appropriate in the microreactor and the capillaries, is  $\leq 3$  hours, preferably  $\leq 1$  hour.
- 10. (Amended) Process according to Claim 1, characterized in that it is carried out at a temperature of from -90 to +150°C, preferably from -20 to +40°C, particularly preferably from -10 to +20°C.
- 11. (Amended) Process according to Claim 1, characterized in that the course of the reaction is monitored by chromatography, preferably gas chromatography, and where appropriate regulated.
- 12. (Amended) Process according to Claim 1, characterized in that the brominated product is isolated from the reaction mixture by extraction or precipitation.
- 13. (Amended) Process according to Claim 1, characterized in that the brominating reagent employed is elemental bromine, dibromoisocyanuric acid, N-bromosuccinimde, hypobromous acid, organic hypobromites, preferably trifluoroacetyl hypobromite, N-bromoacetamide, N-bromophthalimide, pyridinium perbromide and/or dioxane dibromide.
- 14. (Amended) Process according to Claim 1, characterized in that the catalyst employed is iodine, mineral acids, preferably sulphuric acid or nitric acid, and/or Lewis acids, preferably aluminum halides, iron halides, zinc halides or antimony halides.



- 15. (Amended) Process according to Claim 1, characterised in that between 0.1 and 100 mol%, preferably between 1 and 10 mol%, of the catalyst are employed, based on the amount of organic compound employed.
- 18. (Amended) Bromination microreactor according to Claim 16, characterized in that the residence zone is a capillary, preferably a heatable capillary.

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19. (Amended) Bromination microreactor according to Claim 16, characterised in that it is heatable.